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CHAPTER REPORTS HELD OVER FROM 1917

[These chapter reports were duly submitted by the secretaries and put in type in June 1917. In making up the June number on account of excess of material they were marked to be held over and printed in September. Owing to an error at the printers they were not included at that time and a change of help in the Secretary's office resulted in overlooking the omission. It is printed here to perfect the records of the chapters concerned.]

WASHINGTON UNIVERSITY CHAPTER

The Washington University Chapter has held the usual number of meetings during the past academic year. The annual program ordinarily includes a dinner in the fall, at which the Chapter entertains one or more distinguished guests; at least one meeting in the laboratories of some department of the University; an annual business meeting; and, at the time of initiation of new members, a dinner followed by the presidential address.

The meetings held in the various laboratories are designed to give members of the chapter whose primary interests may lie in other lines a glimpse of the vital questions of the moment and the means by which they are being attacked. Methods employed in teaching are also demonstrated.

By a revision in the by-laws the office of corresponding secretary has been abolished, the election of new members is now placed in the hands of a Board of Electors, non-resident members are admitted, and the dues of active members are reduced to two dollars a year. We still elect undergraduate students, but it is understood that only such are eligible as are in the first third of the senior class, or its equivalent, and of these only such as show especial promise in some field of science.

During the present year the chapter has entered into an agreement with the local chapter of Phi Beta Kappa by which an annual public lecture is held under the joint auspices of the two societies. At the first of these, held on April 18, 1917, President A. Ross Hill of the University of Missouri delivered an address entitled The Conception and Instruments of Culture.

Other meetings have been held as follows:

On November 24, 1916, at the annual fall dinner, Professor George Lefevre, of the University of Missouri, gave a paper on The Factorial Theory of Heredity. February 26, 1917, the chapter was the guest of the Department of Physics. Professor Francis E.

Nipher presented a paper dealing with Newton Constant, and Professor Lindley Pyle discussed the Quantum Hypothesis. These papers were illustrated by diagrams and lantern slides. The research laboratories were then thrown open for inspection and members of the department explained the particular problems with which they were engaged and demonstrated certain of the apparatus being employed. On April 7, 1917, at the initiation banquet Professor Duggar delivered the presidential address, A Consideration of Certain Aspects of plant Pathology. Two guests of the chapter, Professors J. S. Kingsley, of the University of Illinois, and George R. Throop, president of the Washington University Chapter of Phi Beta Kappa, also spoke briefly. At the annual business meeting, May 22, 1917, the following officers were elected for the ensuing year: President, A. S. Langsdorf; Vice-president, George T. Moore; Treasurer, LeRoy McMaster; Members of the Board of Electors, J. F. Abbott, G. O. James, W. E. McCourt, E. L. Ohle, Lindley Pyle, P. A. Shaffer, J. L. Van Ornum. C. H. Danforth continues another year as secretary.

The new members admitted to active membership in the Society on April 7 are as follows:

UNDERGRADUATES

Leslie Myron Bare *Electrical Engineering*

Senior student, upper third.

Albert Eli Goldstein *Chemical Engineering*

Senior, very high.

Benjamin Harrison Roberts *Electrical Engineering*

Senior student, upper third.

Harold Clark Keysor *Mechanical Engineering*

Senior student; A.B. Washington University, 1915; standing—first

Forest Henry Staley *Anatomy*

Student assistant, medical; teaching and research in Anatomy; A.B. University of Wisconsin, 1914. Investigation in progress on the Development and Histology of the Gastric Mucous Membrane in Vetebrates.

Edwin Julius Ulbricht *Chemical Engineering*

Senior, very good.

GRADUATES

Ruth Beattie *Botany*

Graduate student; A.B. University of Missouri, 1911. A paper ready for publication on the Effect of Temperature on Enzyme Action. Now instructor in Wellesley.

Carroll William Dodge *Botany*

Graduate student; A.B. Middlebury College, 1915. Research in progress on the Oxidase Action in the Flesh Fungi.

ROGER SANFORD HUBBARD *Bio-Chemistry*
Assistant; candidate for Ph.D. A.B., A.M. Harvard. At least two papers read before American Society of Biological Chemists.

ALEXANDER LURIE *Botany*
Graduate student; B.S. Cornell University, 1913. Research under way on the Callous Formation in Plants. Published a semi-scientific bulletin on Home Grounds, Maine Agricultural Experiment Station, 1914.

DAVID CARLTON NEAL *Botany*
Graduate student; B.S. Mississippi Agricultural College, 1909; A.M. Washington University, 1916. A Consideration of Certain Facts in the Parasitism of *Botrytis cinerea* and *Glomerella* spp.

WALTER SEATON REEVES *Botany*
Graduate student; B.S. Pomona College, California, 1915. A paper in preparation on The Physiological Effects of Unbalanced Ratios of Certain Mineral Nutrients on Plants.

JOSEPH WARREN SEVERY *Botany*
Assistant; graduate student; A.B. Oberlin College, 1915. Has started research in the Physiology of the Fungi and has completed (With B. M. Duggar) Plant Decoctions as Nutrient Media for Certain Fungi.

FACULTY

BARNEY BROOKS
Instructor in Surgery; numerous articles in the field of surgery and surgical anatomy.

ALBERT SHELBY BLATTERMAN
Instructor in electrical engineering; B.S. in Electrical Engineering, Washington University, 1914. Operation of the Non-Synchronous Rotary Spark Gap. Electrical World, Sept. 16, 1916. Variations in Nocturnal Transmissions (with Dr. A. H. Taylor), Proceedings Institute of Radio Engineering, April, 1916. Long Distance Transmission on Low Power and Short Wave Lengths . Wireless Age, Sept., 1916.

JAMES LUCIEN MORRIS
Associate in Biological Chemistry; B.S. Hanover College, 1907; A.M. Harvard, 1911; Ph.D. Harvard, 1914. Normal Protein Metabolism of the Rat. Journal of Biological Chemistry, XIV, 1913. Protein Metabolism of Certain Tumor-bearing Rats. Journal of Medical Research, June, 1913. Creatinine Determination. Journal of Biol. Chemistry, XVII, 1914.

GEORGE CANBY ROBINSON
Associate Professor of Medicine. Various papers chiefly in the field of internal medicine and heart physiology.

NON-RESIDENT MEMBERS

From the Faculty of St. Louis University

RALPH LEROY THOMPSON
Professor of Pathology and Director of Department of Pathology and Bacteriology, St. Louis University School of Medicine; A.B. Bates

College, 1896; A.M., 1901. M.D. Harvard Medical School, 1900. Surgery and Pathology of the Thyroid and Parathyroid Glands (with A. J. Ochsner, M.D.). Glimpses of Medical Europe.

About twenty articles on pathological subjects in medical journals.

HOMER WHEELON

Instructor in Physiology, St. Louis UniversitySchool of Medicine.

B.S. University of Washington. Has interneship to finish before taking M.D. The Variability of Blood Pressure and of Vasomotor Irritability in the Anaesthetized Dog (with collaborator). American Journal of Physiology, 34, 1914. Adrenal Deficiency and the Sympathetic Nervous System (with collaborator). Ibid., 34:172. Parathyroid Deficiency and Sympathetic Irritability. Ibid., 34:263.

C. H. DANFORTH, *Secretary*

THE CASE CHAPTER

During the year 1915-1916 four business meetings were held, the dates being on December 16, 1915, and May 12, 15, and 22, 1916. The Chapter also held four scientific meetings as follows:

On January 21, 1916, a lecture on The Structure of Metals, by Mr. Zay Jeffries of the Department of Metallurgy of Case School of Applied Science. March 23, 1916, a lecture on The History and Aims of the Sigma Xi, by Dr. Charles S. Howe, President of the Sigma Xi Society and of the Case School of Applied Science. April 28, 1916, a lecture on The Modern Attack on the Lighting Problem by Dr. E. P. Hyde of the National Lamp Works of the General Electric Company. May 23, 1916, a lecture on the Earth a Great Magnet and the Work of the Non-magnetic Yacht Carnegie, by Dr. L. A. Bauer, Director of the Department of Terrestrial Magnetism of the Carnegie Institution at Washington, D. C. All of the above scientific meetings except the last were preceded by a dinner at the Case Club. The following new members were elected to this Chapter during the year:

MEMBERS OF THE FACULTY

T. M. BAINS, JR.

Instructor in Mining, Case School of Applied Science. Author of several papers on Mining Geology and Zinc Metallurgy. These papers relate to work done for mining companies and cannot be published.

DR. E. P. HYDE

Director of the Nela Research Laboratory and Professor of Illuminating Engieering, Case School of Applied Science. Author of numerous papers on Photometry, Spectrophotometry, Radiation, etc.

SENIORS

The following members were elected from the graduating class of Case School of Applied Science, their election being based on scholarship records and graduation theses.

Louis H. Ashmun — *Mechanical Engineering*
Thesis: "Bleeding" Tests of a Westinghouse Re-entry Steam Turbine.

G. S. Baldwin — *Mechanical Engineering*
Thesis: The Design and Construction of a Summer Air Conditioner.

J. A. Bjerregaard — *Civil Engineering*
Thesis: A Study of the Effect of Changes of Temperature on the Case Alumcanter.

R. W. Daykin — *Mechanical Engineering*
Thesis: Comparative Friction Tests of Several Brake Bank Linings.

R. J. Emmert — *Electrical Engineering*
Thesis: Absorption Measurements with the Ulbricht Sphere.

R. C. Geiger — *Mechanical Engineering*
Thesis: Comparative Cost of Cleaning Castings with Different Types of Machines.

L. A. Goldreich — *Chemical Engineering*
Thesis: The Contact Process for Sulphuric Acid.

M. W. Metzner — *Electrical Engineering*
Thesis: Design and Construction of a Homopolar Generator.

W. L. Newmeyer — *Electrical Engineering*
Thesis: Study of a Phase Converter.

C. C. Rose — *Chemical Engineering*
Thesis: A Study of the Preparation of Paranitraniline.

K. J. Shetler — *Mechanical Engineering*
Thesis: A Study of Combustion and of Air Leakage in Water Tube Boiler Settings.

E. C. Sinclair — *Civil Engineering*
Thesis: A Study of the Effect of Changes of Temperature on the Case Almucanter.

S. W. Sokolowski — *Metallurgical Engineering*
Thesis: The Effect of Case Hardening on High-Speed Steel.

J. J. Thalheimer — *Electrical Engineering*
Thesis: Design and Construction of a Homopolar Generator.

Q. J. Winsor — *Civil Engineering*
Thesis: A Study of the Bearing Power of Soils.

H. W. Yost — *Mining Engineering*
Thesis: The Development of the Whitlock Mine, Mariposa Co., Cal.

W. R. Veazey, *Secretary*